PTO/S8/08a (05-03)

Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

بمسطر	. Under the Papen	work Red	uction Act of 1995, no persons	O.S. Patent and Tra- are required to respond to a collection	demark Office; U.S. DEPARTMENT OF CO of information unless it contains a valid OMB cont	MMERC
Substitu	ite for form 1449A/P	TO			Complete if Known	iu numo
INIE		l Dic	201.001.00	Application Number		
			CLOSURE	Filing Date	23 March 2004	_
SIA	HEMENT E	BY A	PPLICANT	First Named Inventor	Ronald A. Schmaltz	MMERC rol numbe
	6 122 - 4			Art Unit		
	(use as many sl	neets as	s necessary)	Examiner Name		
Sheet	1	of	3	Attomey Docket Number	1993-1-5	

			U.S. PATENT	DOCUMENTS	
Examiner Initials *	Cite No.	Document Number Number - Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevan Passages or Relevant
UKE	1	US-6,361,016 B1	03-26-2002	Schulz	Figures Appear
JKE	2	US- 6,213,140 B1	04-10-2001	Ploager	
JKE	3	US- 355,741	1-11-1887	Reinmann	
	4	US-356,026	1-11-1887	Boyden	
	5	US- 1,322,421	11-18-1919	French	
	6	US- 2,167,952	8-1-1939	Jordan	<u> </u>
_	7	US- 2,841,357	7-1-1958	Little	
	8	US-3,044,466	7-17-1962	Henderson	
	9	US- 3,415,299	12-10-1968	Hinman, Jr. et al	
	10	US- 3,931,650	1-13-1976	Miller	
	11	US-4,262,876	4-21-1981	Willatt	
_	12	US- 4,624,663	11-25-1986	Danby et al.	
	13	US- 4,667,778	5-26-1987	Ozaki	
	14	US- 4,702,733	10-27-1987	Wright et al.	
-	15	US- 4,878,646	11-7-1989	Edelman et al.	
	16	US- 5,092,856	4-3-1992	Johnston	
	17	US- 5,265,840	11-30-1993	Gillespie et al	
	18	US- 5,280,938	1-25-1994	Berry	William Control of the Control of th
	19	US- 5,397,315	3-14-1995	Schmidt et al	
اسم کا ک	20	U\$- 5,584,596	12-17-1996	Greene	

	FOREIGN PATENT DOCUMENTS								
Examiner	Cite	Foreign Patent Document			Pages, Columns, Lines,				
Initials*	No. ¹	Country Code ³ - Number ⁴ - Kind Code ⁸ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	Τ°			
JEF	21	DE 19511469	10-17-1996	Neubauer et al.	r iguros repear				
JKF	22	WO 02/04849 A1	01-17-2002	Wataru Oue					
DKF	23	GB 646167	11-15-1950	Marshall et al.		·			

Examiner Signature

Date Considered

*EXAMINER: Initial if reference Manidavid whether as not situated to be a considered.

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO/SB/08b(05-03)
Approved for use through 04/30/2003. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

(Substitute for form 144	49A/PTO		Complete if Known	
	INFORMAT	ION DISCLOSURE	A = = 1! = = A! = = A		
			Filing Date	23 March 2004	
	SIAICINEN	IT BY APPLICANT	First Named Inventor	Ronald A. Schmaitz	
			Group Art Unit		
_	(use as ma	any sheets as necessary)	Examiner Name		
	Sheet 2	of 3	Attorney Docket Number	1993-1-5	

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	-
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T 2
JKF	24	International Search Report PCT/US 03/05932	
			
			

Examiner Signature	alkota	Date Considered	7/21/04
			والمراجع والمنافذ وال

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

1 16 16

PTO/SB/08a (05-03) Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitu	te for form 1449/	VPTO			Complete If Known	
16186				Application Number		
INFORMATION DISCLOSURE				Filing Date	23 March 2004	
STA	TEMENT	BY A	PPLICANT	First Named Inventor Ronald A. Schmaltz		
				Art Unit		
	(use as man	y sheets as	necessary)	Examiner Name		-
Sheet	3	of	3	Attorney Docket Number	1993-1-5	

			U.S. PATENT	OCUMENTS	
Examiner	Cite	Document Number	Publication Date	Name of Patentee or Applicant of	
Initials *	No.1	Number - Kind Code ² (if known)	MM-DD-YYYY	Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JKE	25	US-6,024,257	2-15-2000	Djavit	
JKF	26	US- 8,361,016	3-26-2002	Schulz	
JKF	27	US-3,807,453	4-1974	Dom et al	
JKE	28	US- 6,526,803	3-2003	Murphy, Kevin D.	
)1c=	29	US-6,012,181	1-2000	Johnson et al	
UKF	30	US-4,172,580	10-1979	Raftis et al	
					· · · · · · · · · · · · · · · · · · ·
			·	<u> </u>	
					

FOREIGN PATENT DOCUMENTS								
Cito	Foreign Patent Document		Name of Patentee or	Pages, Columns, Lines,				
No.1	Country Code ³ - Number ⁴ - Kind Code ⁴ (if known)	Publication Oate MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	T ⁰			
·								
	Cite No.1	Cite Foreign Patent Document	Cite No.1 Counter Code3 Number 4 Vind Code5 (Vincence) Counter Code3 Number 4 Vind Code5 (Vincence)	Cite No.1 Country Code ³ Number ⁴ Kind Code ⁵ (Klasson) Country Code ³ Number ⁴ Kind Code ⁵ (Klasson) Oate Name of Patentee or Applicant of Cited	Cite No.1 Foreign Patent Document Publication Date Country Code3 - Number4 - Kind Code6 (if known) AND Document Pages, Columns, Lines, Where Relevant Passages or Relevant			

	Examiner Signature	all	212	Date Considered	7/	21/	04
--	-----------------------	-----	-----	--------------------	----	-----	----

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include doby of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 If possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.